

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P856157

Luminaire Tested: **FFX-CLB-80-727-U-FR-T5-UPLR**

Issue Date: 07/16/2024



Test Information

Test Method: LM-79-08
Report Number: P856157
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: FFX-CLB-80-727-U-FR-T5-UPLR
Description: FAIRFAX POST TOP FIXTURE w/ FAIRFAX REFRACTOR T5 DISTRIBUTION LENS AND UPLIGHT REFLECTOR
Light Source: (6) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

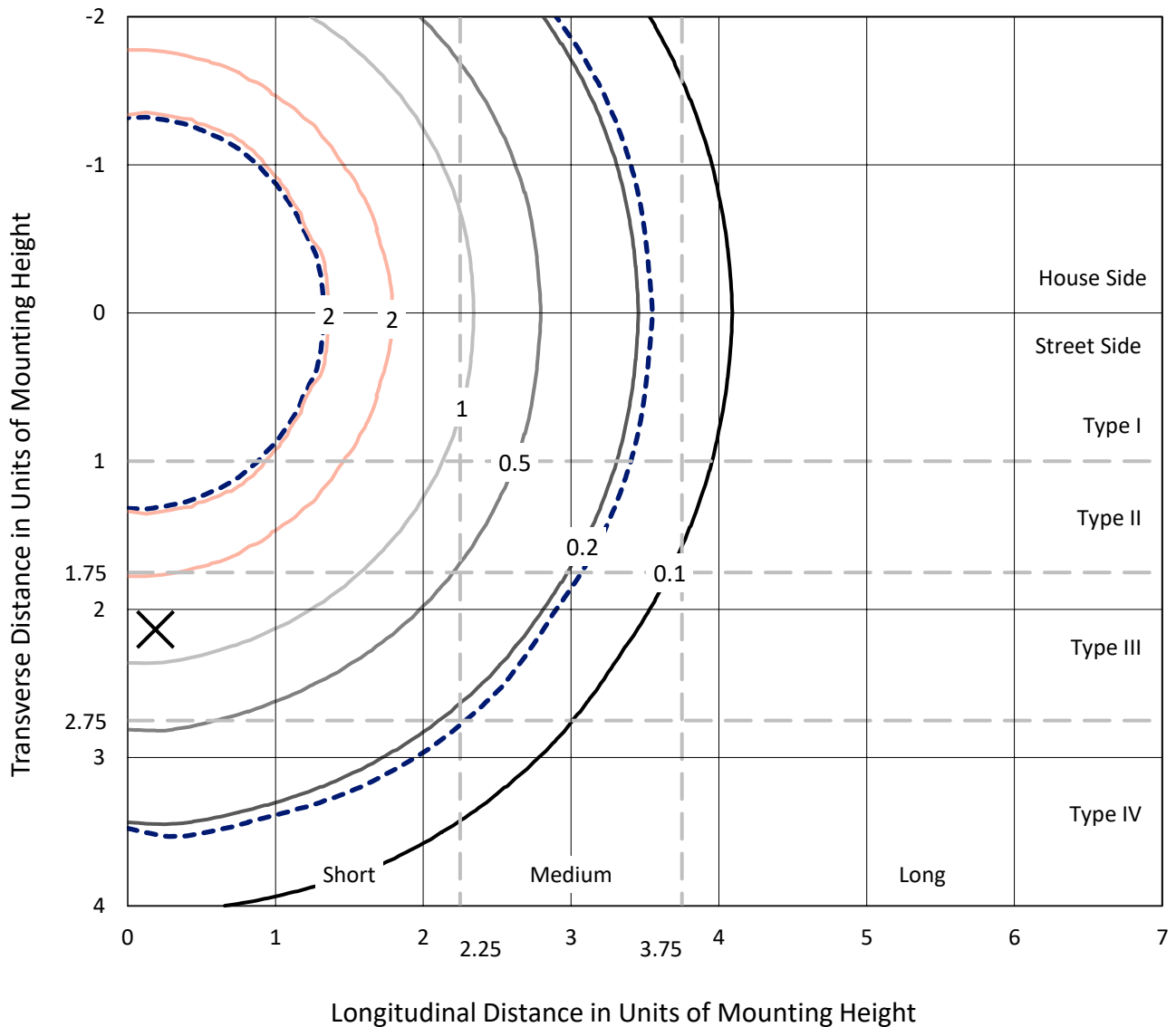
Lumens per Lamp: N/A
Luminaire Lumens: 11736.6 lumens
Efficiency: N/A
Efficacy: 145.3 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.17' x H: 1.67')
IES Classification: Type V - Short
BUG Rating: B4 - U5 - G3

Input Watts (W): 80.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 6.1%%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Iso-Footcandle Lines of Horizontal Illumination

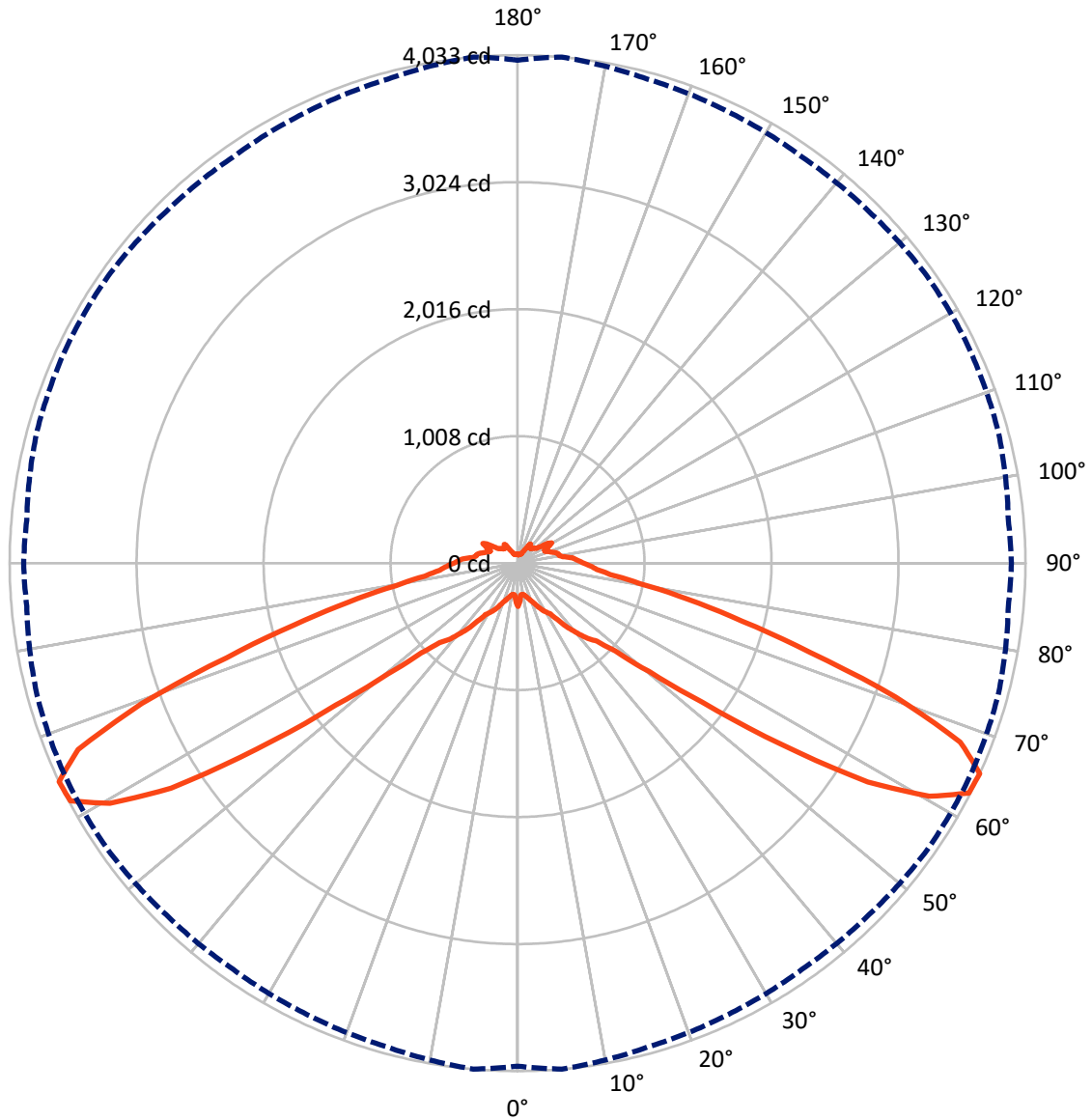
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 5-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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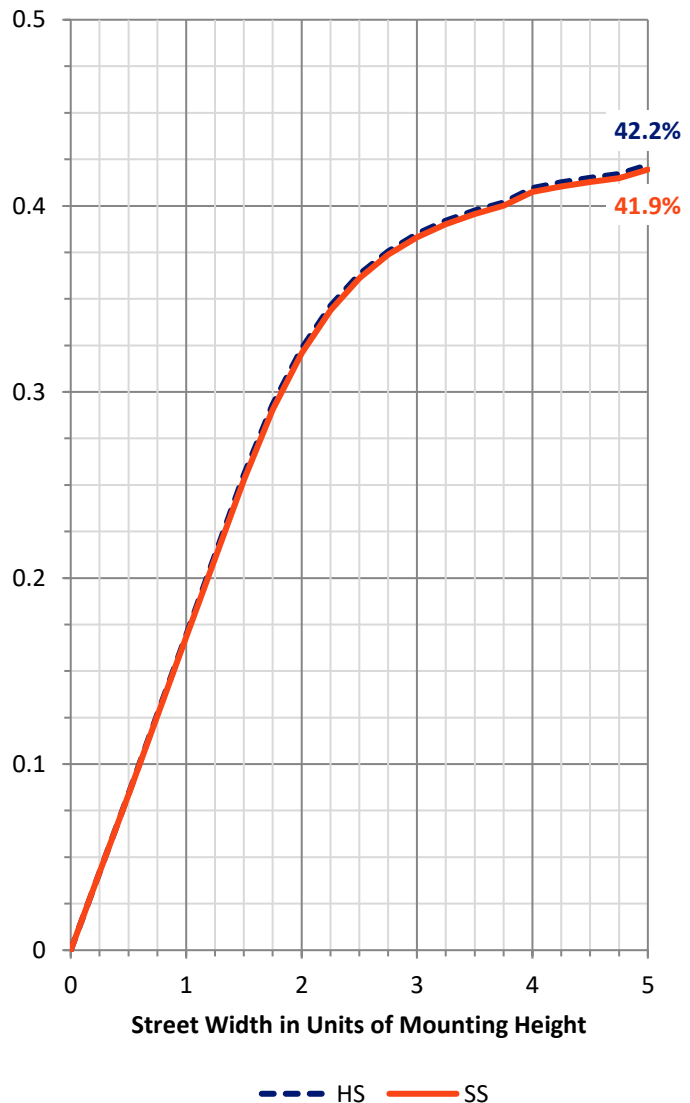
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5126.7	741.6	5868.3
	% Fixture	43.7	6.3	50.0
Street Side	Lumens	5126.7	741.6	5868.3
	% Fixture	43.7	6.3	50.0
Total	Lumens	10253.4	1483.2	11736.6
	% Fixture	87.4	12.6	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.0	0.2
10°-20°	82.4	0.7
20°-30°	178.6	1.5
30°-40°	361.8	3.1
40°-50°	729.5	6.2
50°-60°	2319.3	19.8
60°-70°	3740.3	31.9
70°-80°	2039.7	17.4
80°-90°	776.7	6.6
90°-100°	466.1	4.0
100°-110°	297.3	2.5
110°-120°	226.1	1.9
120°-130°	191.3	1.6
130°-140°	124.6	1.1
140°-150°	104.5	0.9
150°-160°	46.8	0.4
160°-170°	19.9	0.2
170°-180°	6.6	0.1
0°-90°	10253.4	87.4
0°-180°	11736.6	100.0



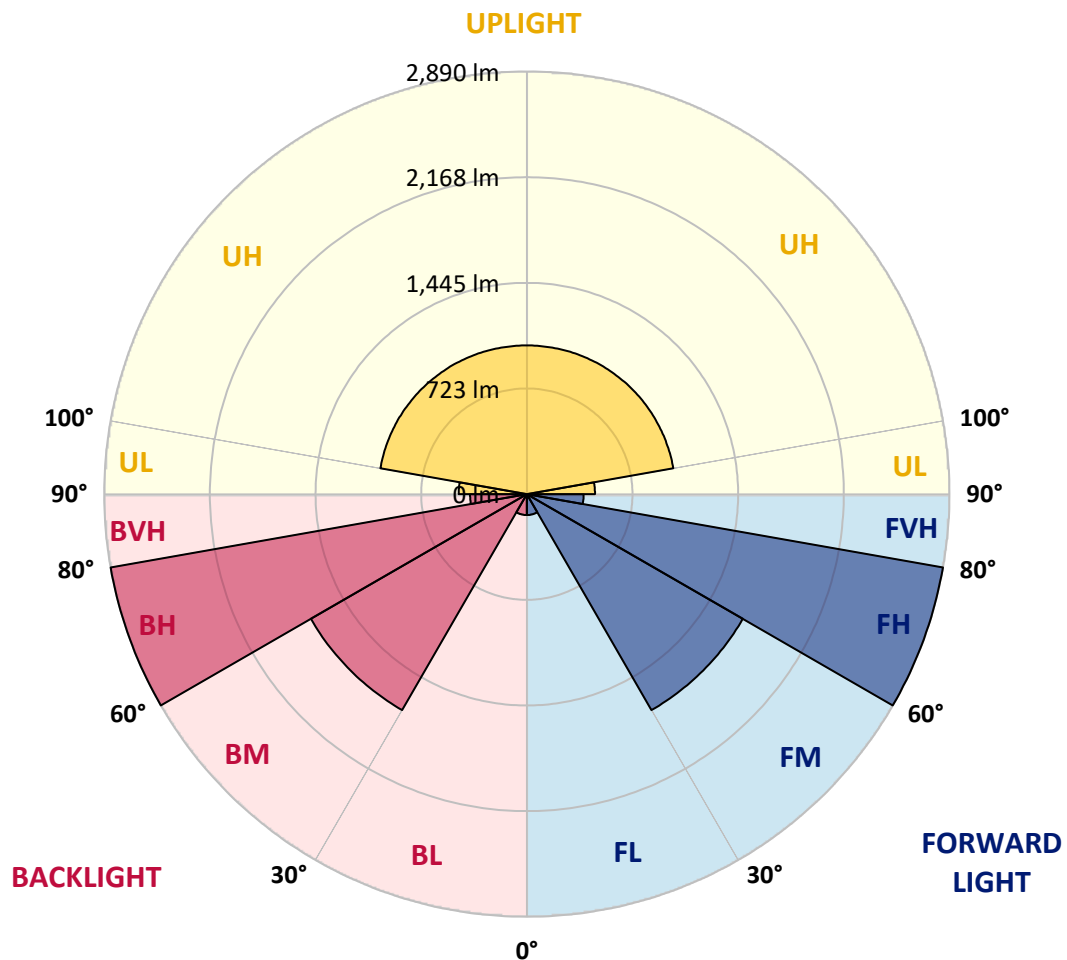
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	143.0	1.2			
FM (30°-60°)	1705.4	14.5			
FH (60°-80°)	2890.0	24.6			G2/5000
FVH (80°-90°)	388.3	3.3			G3/500
BL (0°-30°)	143.0	1.2	B1/500		
BM (30°-60°)	1705.4	14.5	B2/2500		
BH (60°-80°)	2890.0	24.6	B4/5000		G2/5000
BVH (80°-90°)	388.3	3.3			G3/500
UL (90°-100°)	466.1	4.0		U3/500	
UH (100°-180°)	1017.1	8.7		U5	

BUG Rating: B4-U5-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	344.4	344.4	344.4	344.4	344.4	344.4	344.4	344.4	344.4	344.4	344.4
2.5°	307.7	312.6	299.1	288.0	283.1	284.4	295.4	306.4	295.4	299.1	299.1
5°	254.9	256.2	256.2	253.7	257.4	250.0	241.5	241.5	250.0	259.8	259.8
7.5°	246.4	250.0	259.8	259.8	263.5	251.3	239.0	240.2	252.5	267.2	270.9
10°	253.7	253.7	251.3	253.7	262.3	261.1	247.6	241.5	250.0	264.8	269.7
12.5°	264.8	264.8	272.1	283.1	284.4	273.3	259.8	258.6	268.4	278.2	278.2
15°	280.7	281.9	285.6	284.4	288.0	284.4	280.7	283.1	289.3	289.3	289.3
17.5°	301.5	301.5	301.5	301.5	301.5	302.7	304.0	304.0	304.0	306.4	306.4
20°	324.8	324.8	323.6	322.4	322.4	323.6	324.8	324.8	324.8	327.3	327.3
22.5°	354.2	353.0	350.5	350.5	350.5	351.8	349.3	348.1	346.9	348.1	348.1
25°	388.5	388.5	386.1	382.4	382.4	381.2	377.5	376.3	375.1	377.5	376.3
27.5°	422.9	422.9	419.2	414.3	414.3	414.3	411.8	409.4	406.9	408.2	408.2
30°	454.7	452.3	451.1	447.4	446.2	447.4	444.9	444.9	440.0	438.8	441.3
32.5°	484.2	481.7	484.2	480.5	476.8	480.5	479.2	479.2	471.9	469.4	471.9
35°	565.0	558.9	563.8	555.2	550.3	551.6	554.0	558.9	551.6	547.9	549.1
37.5°	652.1	650.8	666.8	680.3	677.8	657.0	643.5	645.9	655.7	669.2	669.2
40°	733.0	730.5	734.2	729.3	729.3	726.8	725.6	731.7	712.1	707.2	703.6
42.5°	817.5	816.3	795.5	766.1	759.9	784.4	795.5	804.1	775.9	766.1	758.7
45°	900.9	883.7	880.1	870.2	860.4	876.4	875.1	881.3	867.8	866.6	860.4
47.5°	1076.2	1044.3	1033.3	1034.5	1013.7	1030.8	1038.2	1057.8	1029.6	1030.8	1029.6
50°	1392.4	1351.9	1370.3	1358.1	1336.0	1356.8	1355.6	1391.2	1344.6	1361.8	1354.4
52.5°	1886.4	1831.2	1842.2	1834.9	1812.8	1855.7	1865.5	1918.2	1828.7	1850.8	1844.7
55°	2600.9	2540.9	2565.4	2477.1	2453.8	2538.4	2570.3	2631.6	2512.7	2524.9	2518.8
57.5°	3282.4	3278.7	3320.4	3257.9	3237.1	3297.1	3267.7	3321.6	3257.9	3303.3	3288.5
60°	3747.0	3756.8	3798.4	3816.8	3780.1	3811.9	3740.8	3781.3	3761.7	3827.9	3821.7
62.5°	3988.4	4020.3	3995.8	3997.0	3956.6	3981.1	3967.6	3990.9	3986.0	3992.1	3986.0
65°	3993.3	4032.5	3978.6	3954.1	3936.9	3946.7	3970.0	3970.0	3955.3	3911.2	3921.0
67.5°	3732.3	3791.1	3731.0	3696.7	3706.5	3702.8	3718.8	3697.9	3689.4	3624.4	3625.6
70°	3090.0	3184.4	3096.1	3064.2	3090.0	3105.9	3104.7	3087.5	3074.1	2993.2	3016.4
72.5°	2346.0	2429.3	2350.9	2338.6	2363.1	2387.7	2366.8	2387.7	2365.6	2328.8	2339.9
75°	1771.1	1842.2	1842.2	1888.8	1896.2	1882.7	1825.1	1848.4	1863.1	1864.3	1875.3
77.5°	1302.9	1377.7	1416.9	1492.9	1489.2	1465.9	1396.1	1423.0	1451.2	1470.8	1484.3
80°	926.6	983.0	1040.6	1094.5	1101.9	1082.3	1039.4	1055.3	1072.5	1086.0	1093.3
82.5°	718.3	744.0	733.0	726.8	736.6	764.8	774.6	784.4	759.9	744.0	750.1
85°	626.3	628.8	648.4	661.9	665.6	665.6	655.7	663.1	669.2	685.2	685.2
87.5°	571.2	573.6	622.7	636.1	641.0	634.9	622.7	627.6	632.5	642.3	642.3
90°	507.4	514.8	563.8	574.9	579.8	569.9	566.3	569.9	563.8	567.5	567.5
92.5°	471.9	471.9	495.2	490.3	489.1	490.3	491.5	495.2	489.1	486.6	486.6
95°	431.4	437.6	431.4	436.3	435.1	429.0	426.5	429.0	425.3	425.3	427.8
97.5°	361.6	362.8	351.8	355.5	355.5	350.5	344.4	346.9	343.2	345.6	346.9
100°	338.3	334.6	316.2	313.8	312.6	308.9	305.2	305.2	304.0	302.7	304.0
102.5°	330.9	330.9	306.4	301.5	299.1	292.9	288.0	288.0	288.0	288.0	289.3
105°	302.7	311.3	292.9	289.3	285.6	278.2	270.9	269.7	272.1	269.7	273.3
107.5°	274.6	281.9	272.1	272.1	268.4	261.1	256.2	254.9	256.2	253.7	256.2
110°	258.6	262.3	251.3	251.3	248.8	242.7	241.5	240.2	240.2	236.6	239.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	239.0	239.0	230.4	228.0	228.0	224.3	223.1	221.9	221.9	221.9	223.1
115°	237.8	236.6	223.1	214.5	213.3	212.0	213.3	212.0	212.0	210.8	210.8
117.5°	290.5	278.2	232.9	212.0	212.0	213.3	218.2	214.5	205.9	205.9	204.7
120°	313.8	316.2	268.4	246.4	241.5	235.3	234.1	231.7	223.1	221.9	226.8
122.5°	277.0	289.3	259.8	251.3	246.4	239.0	234.1	232.9	232.9	226.8	235.3
125°	215.7	226.8	212.0	210.8	209.6	210.8	208.4	208.4	210.8	207.1	208.4
127.5°	185.1	190.0	183.9	183.9	182.6	181.4	179.0	180.2	179.0	180.2	181.4
130°	177.7	181.4	175.3	172.8	172.8	174.0	174.0	174.0	170.4	167.9	169.1
132.5°	176.5	175.3	165.5	160.6	160.6	169.1	172.8	172.8	164.2	158.1	158.1
135°	159.3	160.6	159.3	153.2	154.4	156.9	160.6	161.8	153.2	149.5	150.8
137.5°	153.2	156.9	158.1	155.7	155.7	153.2	152.0	153.2	150.8	152.0	152.0
140°	153.2	154.4	158.1	160.6	158.1	155.7	155.7	155.7	156.9	160.6	163.0
142.5°	156.9	158.1	156.9	155.7	159.3	165.5	170.4	170.4	166.7	164.2	165.5
145°	180.2	183.9	183.9	180.2	182.6	180.2	180.2	177.7	177.7	177.7	179.0
147.5°	171.6	170.4	172.8	176.5	172.8	171.6	171.6	172.8	175.3	176.5	177.7
150°	134.8	131.1	133.6	141.0	139.7	139.7	139.7	141.0	142.2	142.2	143.4
152.5°	106.6	106.6	109.1	109.1	110.3	110.3	109.1	109.1	109.1	110.3	110.3
155°	95.6	94.4	96.8	100.5	98.1	98.1	98.1	98.1	98.1	98.1	99.3
157.5°	83.3	82.1	82.1	83.3	83.3	83.3	83.3	84.6	84.6	83.3	84.6
160°	76.0	76.0	74.8	74.8	74.8	76.0	77.2	77.2	76.0	74.8	74.8
162.5°	72.3	72.3	69.9	68.6	68.6	69.9	72.3	72.3	69.9	68.6	68.6
165°	72.3	71.1	67.4	65.0	65.0	67.4	71.1	71.1	67.4	65.0	65.0
167.5°	71.1	71.1	68.6	66.2	66.2	68.6	69.9	71.1	69.9	67.4	66.2
170°	68.6	68.6	69.9	69.9	68.6	68.6	68.6	68.6	69.9	69.9	69.9
172.5°	71.1	69.9	71.1	72.3	72.3	71.1	69.9	69.9	71.1	72.3	72.3
175°	72.3	72.3	71.1	71.1	71.1	69.9	69.9	69.9	71.1	72.3	71.1
177.5°	65.0	65.0	63.7	65.0	65.0	65.0	63.7	65.0	65.0	65.0	66.2
180°	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3

LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

Streetworks

Report Number: SP1-2406-133-3

Test Date: 07/12/2024

Luminaire Tested: FFX-CLB-100-727-U-FR-T5

Data in this report applies to families of products including FFX-CLB-100-727-U-FR-T5.

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2406-133-3
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 07/12/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: Streetworks
 Catalog Number: **FFX-CLB-100-727-U-FR-T5**
 Description: FAIRFAX ACORN W/ FAIRFAX REFRACTOR 100W T5

Spectral Parameters

CCT (K): 2707
 CIE u': 0.2624
 CIE v': 0.5261
 Duv: -0.0007
 CIE x: 0.4580
 CIE y: 0.4082
 CIE z: 0.1338
 Peak Wavelength (nm): 599
 Dominant Wavelength (nm): 584
 Purity: 59.99901
 Rf: 75.5
 Rg: 92.5

CRI (Ra):	71.3		
R1:	67.8	R9:	-34.9
R2:	84.5	R10:	65.1
R3:	94.2	R11:	59.2
R4:	64.8	R12:	54.2
R5:	66.9	R13:	71.2
R6:	79.2	R14:	97.5
R7:	74.4	R15:	59.4
R8:	38.8		



Test Conditions

Stabilization Time: 0.813602M
 Operation Time: 1H
 Sphere Temperature (°C): 24.7

REPORT NUMBER: SP1-2406-133-3

Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085	10/24/2023	10/24/2024
Room Thermometer	IN0046	10/24/2023	10/24/2024

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CIE 1931 Chromaticity Diagram



CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 2700K 4-step quadrangle

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Photopic Flux vs. Wavelength

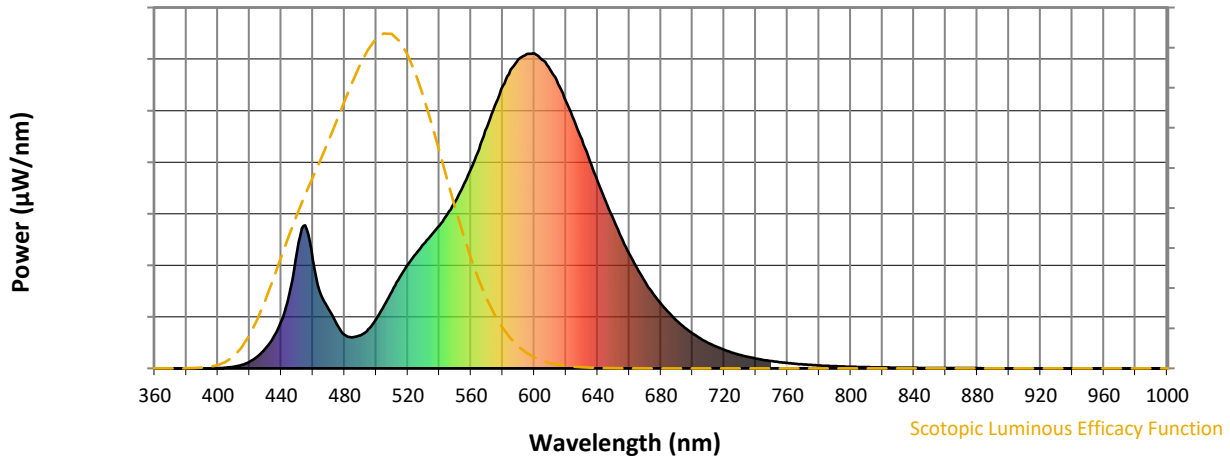


Photopic Lumens: NR

λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	105	NR	620	849	NR	750	23	NR	880	1	NR
365	0	NR	495	124	NR	625	789	NR	755	20	NR	885	0	NR
370	0	NR	500	156	NR	630	727	NR	760	17	NR	890	0	NR
375	0	NR	505	200	NR	635	659	NR	765	15	NR	895	0	NR
380	0	NR	510	245	NR	640	595	NR	770	13	NR	900	0	NR
385	0	NR	515	290	NR	645	531	NR	775	11	NR	905	0	NR
390	0	NR	520	330	NR	650	472	NR	780	9	NR	910	0	NR
395	0	NR	525	363	NR	655	417	NR	785	8	NR	915	0	NR
400	0	NR	530	395	NR	660	364	NR	790	7	NR	920	0	NR
405	2	NR	535	424	NR	665	317	NR	795	6	NR	925	0	NR
410	5	NR	540	454	NR	670	274	NR	800	5	NR	930	0	NR
415	11	NR	545	490	NR	675	237	NR	805	4	NR	935	0	NR
420	21	NR	550	530	NR	680	206	NR	810	4	NR	940	0	NR
425	38	NR	555	579	NR	685	176	NR	815	3	NR	945	0	NR
430	63	NR	560	635	NR	690	152	NR	820	3	NR	950	0	NR
435	99	NR	565	697	NR	695	129	NR	825	3	NR	955	0	NR
440	150	NR	570	765	NR	700	111	NR	830	2	NR	960	0	NR
445	233	NR	575	834	NR	705	95	NR	835	2	NR	965	0	NR
450	372	NR	580	897	NR	710	81	NR	840	2	NR	970	0	NR
455	454	NR	585	948	NR	715	69	NR	845	1	NR	975	0	NR
460	345	NR	590	982	NR	720	59	NR	850	1	NR	980	0	NR
465	235	NR	595	998	NR	725	50	NR	855	1	NR	985	0	NR
470	187	NR	600	1000	NR	730	43	NR	860	1	NR	990	0	NR
475	141	NR	605	980	NR	735	36	NR	865	1	NR	995	0	NR
480	107	NR	610	949	NR	740	31	NR	870	1	NR	1000	0	NR
485	99	NR	615	902	NR	745	27	NR	875	1	NR			

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Scotopic Flux vs. Wavelength



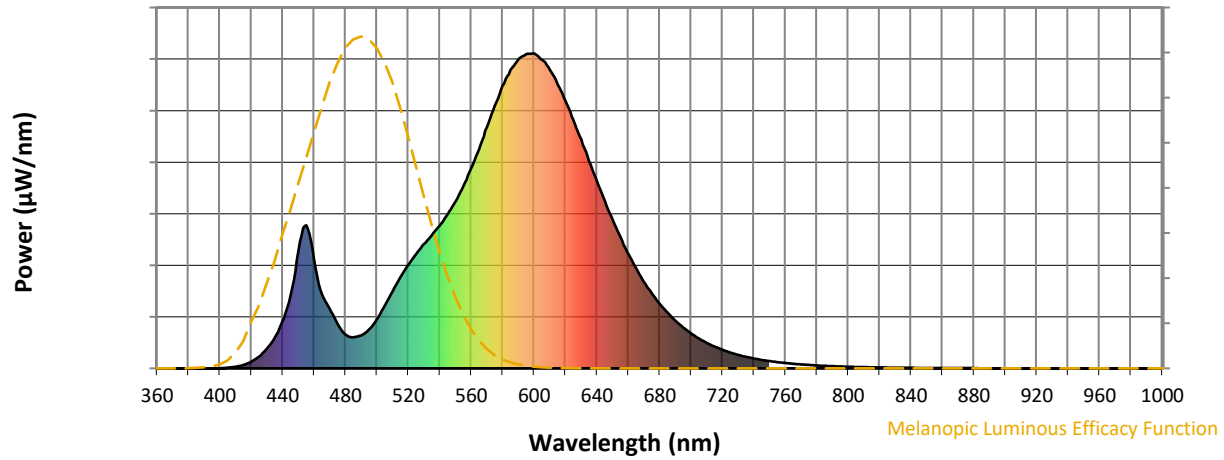
Scotopic Lumens: NR

S/P: 1.12

λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	105	NR	620	849	NR	750	23	NR	880	1	NR
365	0	NR	495	124	NR	625	789	NR	755	20	NR	885	0	NR
370	0	NR	500	156	NR	630	727	NR	760	17	NR	890	0	NR
375	0	NR	505	200	NR	635	659	NR	765	15	NR	895	0	NR
380	0	NR	510	245	NR	640	595	NR	770	13	NR	900	0	NR
385	0	NR	515	290	NR	645	531	NR	775	11	NR	905	0	NR
390	0	NR	520	330	NR	650	472	NR	780	9	NR	910	0	NR
395	0	NR	525	363	NR	655	417	NR	785	8	NR	915	0	NR
400	0	NR	530	395	NR	660	364	NR	790	7	NR	920	0	NR
405	2	NR	535	424	NR	665	317	NR	795	6	NR	925	0	NR
410	5	NR	540	454	NR	670	274	NR	800	5	NR	930	0	NR
415	11	NR	545	490	NR	675	237	NR	805	4	NR	935	0	NR
420	21	NR	550	530	NR	680	206	NR	810	4	NR	940	0	NR
425	38	NR	555	579	NR	685	176	NR	815	3	NR	945	0	NR
430	63	NR	560	635	NR	690	152	NR	820	3	NR	950	0	NR
435	99	NR	565	697	NR	695	129	NR	825	3	NR	955	0	NR
440	150	NR	570	765	NR	700	111	NR	830	2	NR	960	0	NR
445	233	NR	575	834	NR	705	95	NR	835	2	NR	965	0	NR
450	372	NR	580	897	NR	710	81	NR	840	2	NR	970	0	NR
455	454	NR	585	948	NR	715	69	NR	845	1	NR	975	0	NR
460	345	NR	590	982	NR	720	59	NR	850	1	NR	980	0	NR
465	235	NR	595	998	NR	725	50	NR	855	1	NR	985	0	NR
470	187	NR	600	1000	NR	730	43	NR	860	1	NR	990	0	NR
475	141	NR	605	980	NR	735	36	NR	865	1	NR	995	0	NR
480	107	NR	610	949	NR	740	31	NR	870	1	NR	1000	0	NR
485	99	NR	615	902	NR	745	27	NR	875	1	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.03

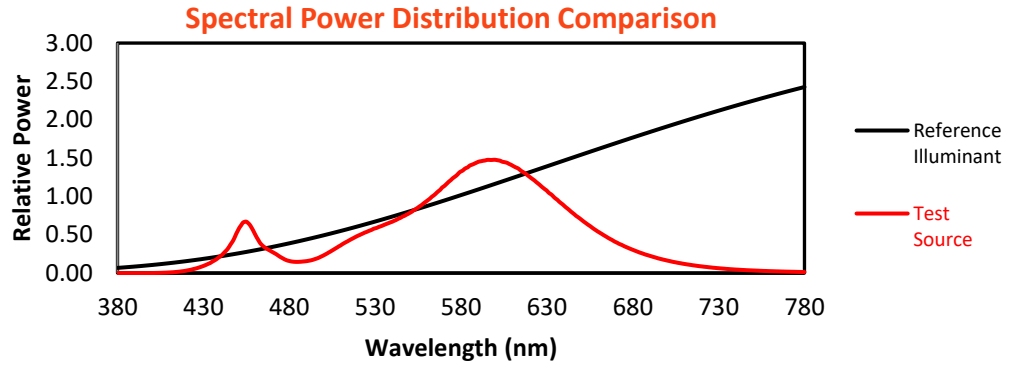
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	105	NR	620	849	NR	750	23	NR	880	1	NR
365	0	NR	495	124	NR	625	789	NR	755	20	NR	885	0	NR
370	0	NR	500	156	NR	630	727	NR	760	17	NR	890	0	NR
375	0	NR	505	200	NR	635	659	NR	765	15	NR	895	0	NR
380	0	NR	510	245	NR	640	595	NR	770	13	NR	900	0	NR
385	0	NR	515	290	NR	645	531	NR	775	11	NR	905	0	NR
390	0	NR	520	330	NR	650	472	NR	780	9	NR	910	0	NR
395	0	NR	525	363	NR	655	417	NR	785	8	NR	915	0	NR
400	0	NR	530	395	NR	660	364	NR	790	7	NR	920	0	NR
405	2	NR	535	424	NR	665	317	NR	795	6	NR	925	0	NR
410	5	NR	540	454	NR	670	274	NR	800	5	NR	930	0	NR
415	11	NR	545	490	NR	675	237	NR	805	4	NR	935	0	NR
420	21	NR	550	530	NR	680	206	NR	810	4	NR	940	0	NR
425	38	NR	555	579	NR	685	176	NR	815	3	NR	945	0	NR
430	63	NR	560	635	NR	690	152	NR	820	3	NR	950	0	NR
435	99	NR	565	697	NR	695	129	NR	825	3	NR	955	0	NR
440	150	NR	570	765	NR	700	111	NR	830	2	NR	960	0	NR
445	233	NR	575	834	NR	705	95	NR	835	2	NR	965	0	NR
450	372	NR	580	897	NR	710	81	NR	840	2	NR	970	0	NR
455	454	NR	585	948	NR	715	69	NR	845	1	NR	975	0	NR
460	345	NR	590	982	NR	720	59	NR	850	1	NR	980	0	NR
465	235	NR	595	998	NR	725	50	NR	855	1	NR	985	0	NR
470	187	NR	600	1000	NR	730	43	NR	860	1	NR	990	0	NR
475	141	NR	605	980	NR	735	36	NR	865	1	NR	995	0	NR
480	107	NR	610	949	NR	740	31	NR	870	1	NR	1000	0	NR
485	99	NR	615	902	NR	745	27	NR	875	1	NR			

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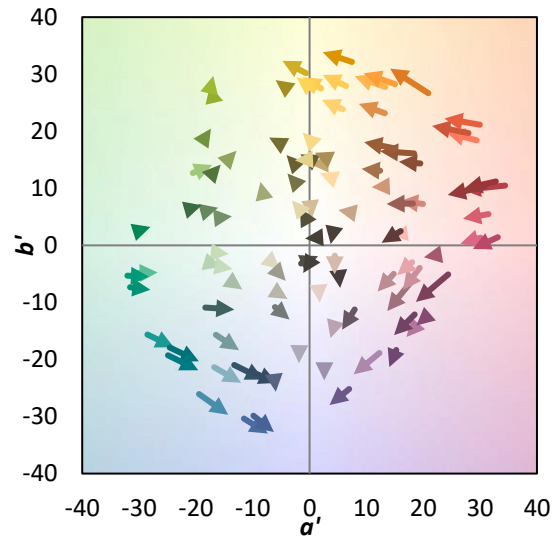
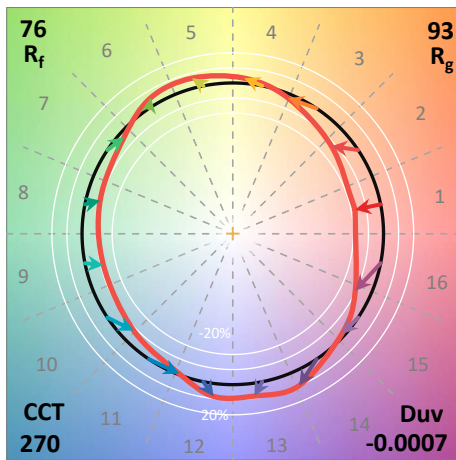
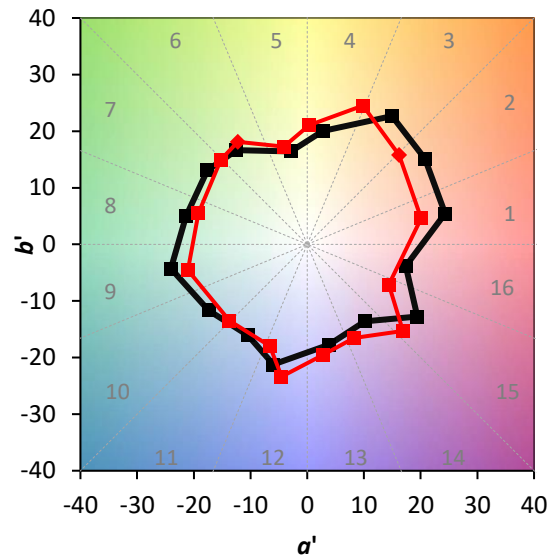
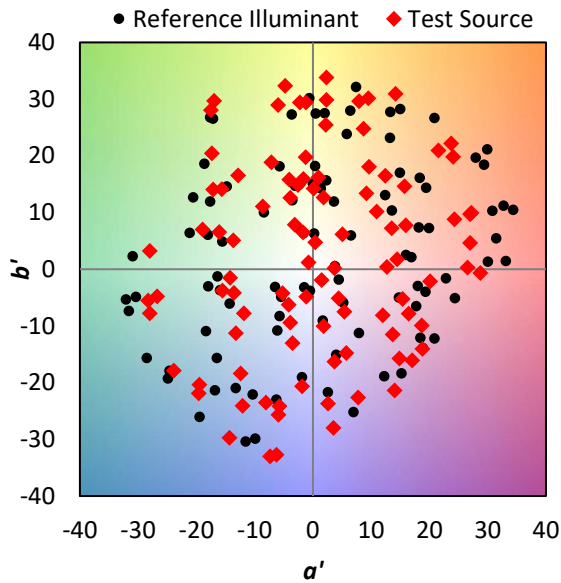
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Summary

$R_f = 75.5$
 $R_g = 92.5$
 CIE $R_a = 71.3$
 $R_9 = -34.9$



Color Vector Graphics



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Individual Sample Fidelity Index ($R_{f,i}$)

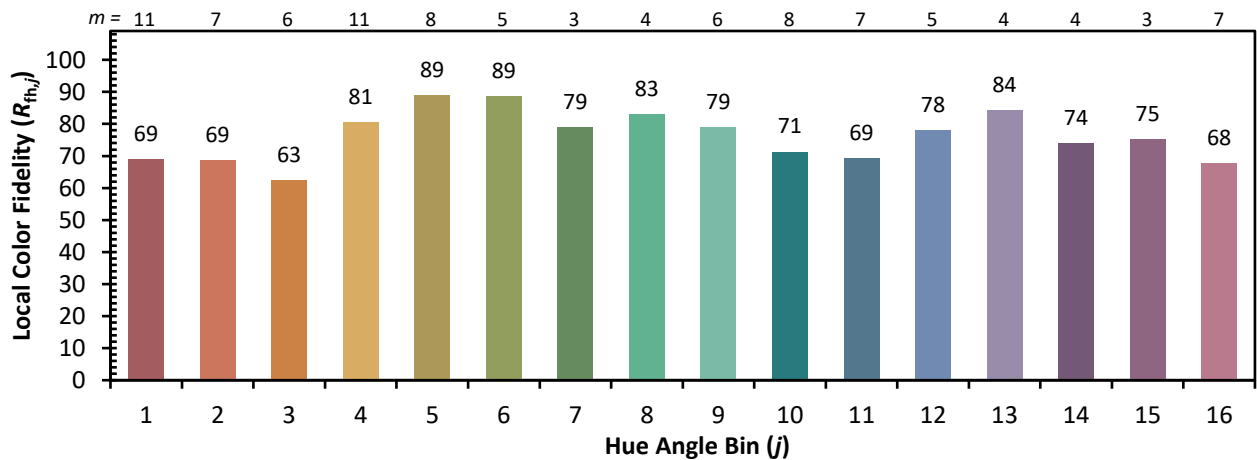
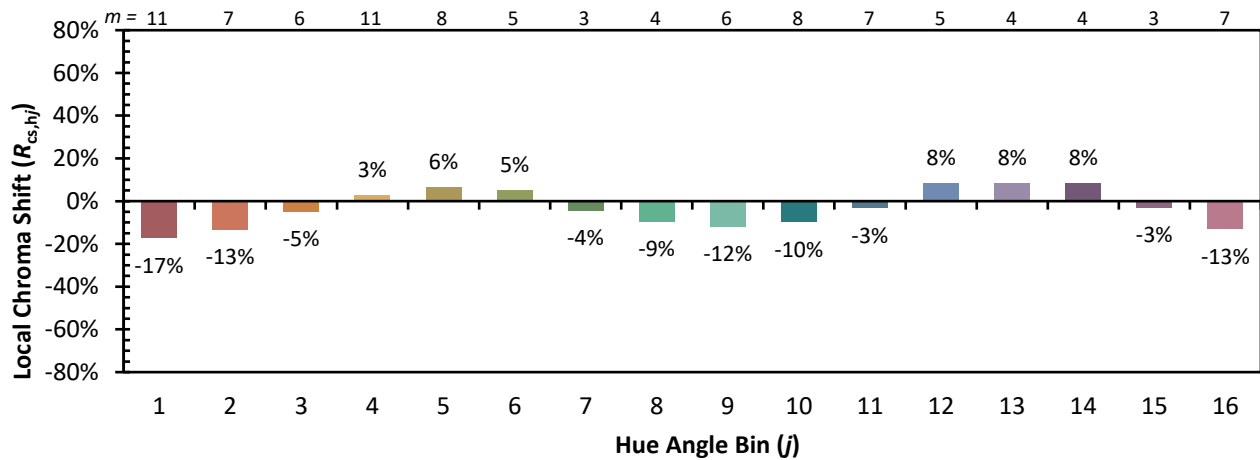
CES01 = 86	CES26 = 69	CES51 = 86	CES76 = 64
CES02 = 63	CES27 = 91	CES52 = 83	CES77 = 79
CES03 = 31	CES28 = 87	CES53 = 77	CES78 = 68
CES04 = 71	CES29 = 75	CES54 = 85	CES79 = 87
CES05 = 50	CES30 = 90	CES55 = 83	CES80 = 85
CES06 = 52	CES31 = 77	CES56 = 75	CES81 = 67
CES07 = 42	CES32 = 68	CES57 = 73	CES82 = 93
CES08 = 41	CES33 = 85	CES58 = 74	CES83 = 91
CES09 = 29	CES34 = 80	CES59 = 84	CES84 = 89
CES10 = 77	CES35 = 89	CES60 = 89	CES85 = 71
CES11 = 60	CES36 = 90	CES61 = 80	CES86 = 59
CES12 = 66	CES37 = 88	CES62 = 87	CES87 = 77
CES13 = 43	CES38 = 99	CES63 = 78	CES88 = 80
CES14 = 74	CES39 = 97	CES64 = 64	CES89 = 65
CES15 = 72	CES40 = 94	CES65 = 66	CES90 = 81
CES16 = 48	CES41 = 96	CES66 = 60	CES91 = 78
CES17 = 51	CES42 = 90	CES67 = 58	CES92 = 54
CES18 = 57	CES43 = 80	CES68 = 66	CES93 = 71
CES19 = 73	CES44 = 99	CES69 = 76	CES94 = 48
CES20 = 67	CES45 = 85	CES70 = 63	CES95 = 66
CES21 = 88	CES46 = 82	CES71 = 60	CES96 = 76
CES22 = 80	CES47 = 90	CES72 = 86	CES97 = 80
CES23 = 92	CES48 = 75	CES73 = 57	CES98 = 75
CES24 = 91	CES49 = 80	CES74 = 92	CES99 = 64
CES25 = 73	CES50 = 86	CES75 = 66	



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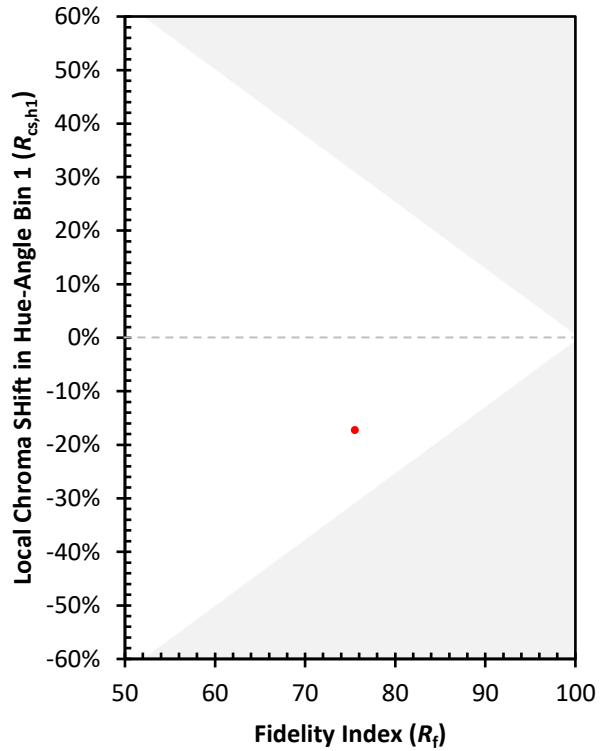
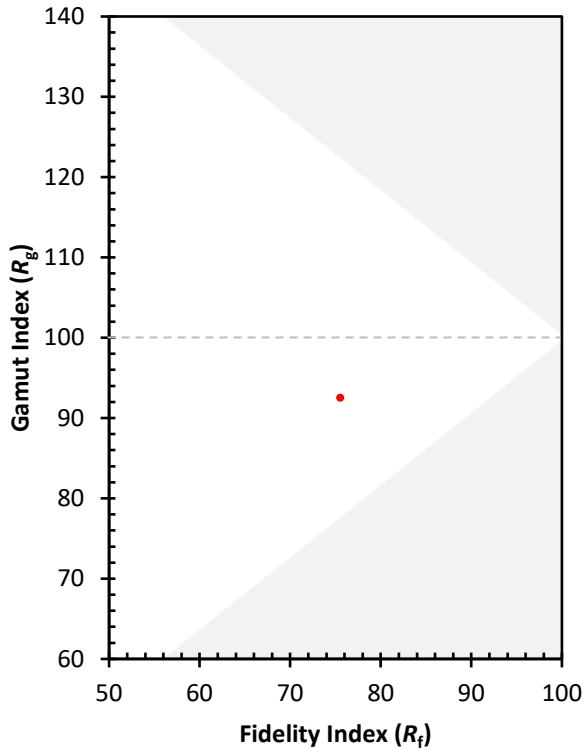
Color Rendition by Hue-Angle Bin



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Measure Comparisons



(END OF REPORT)